PHIN Messaging System (PHINMS)

Technical Tutorial

PHINMS Version 2.5

March 12, 2005

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Agenda

- Overview of PHINMS
- Architecture Overview
- New Features in version 2.5
- Brief discussion on CPA's
- Certificate Extraction (How to)
- Installation of version 2.5
- Live Demo
- Questions

Fast Pace: Don't Worry

- The presentation touches on critical and difficult to understand subject areas
- Goal - Provide adequate information to a technical audience so they can begin to understand the system, its components and modes of operation.
- PHINMS is a core message transport product. Focus has been on delivering a robust messaging system (Version 2.5 is drastically more user friendly than previous versions)
- Information available:
  - www.cdc.gov/phin

PHINMS

- CDC's implementation of the ebXML 2.0 messages service standards
- Version 2.5 Runs on Windows Only
- A separable part of the NEDSS Base System
- Java based client and server

What is ebXML

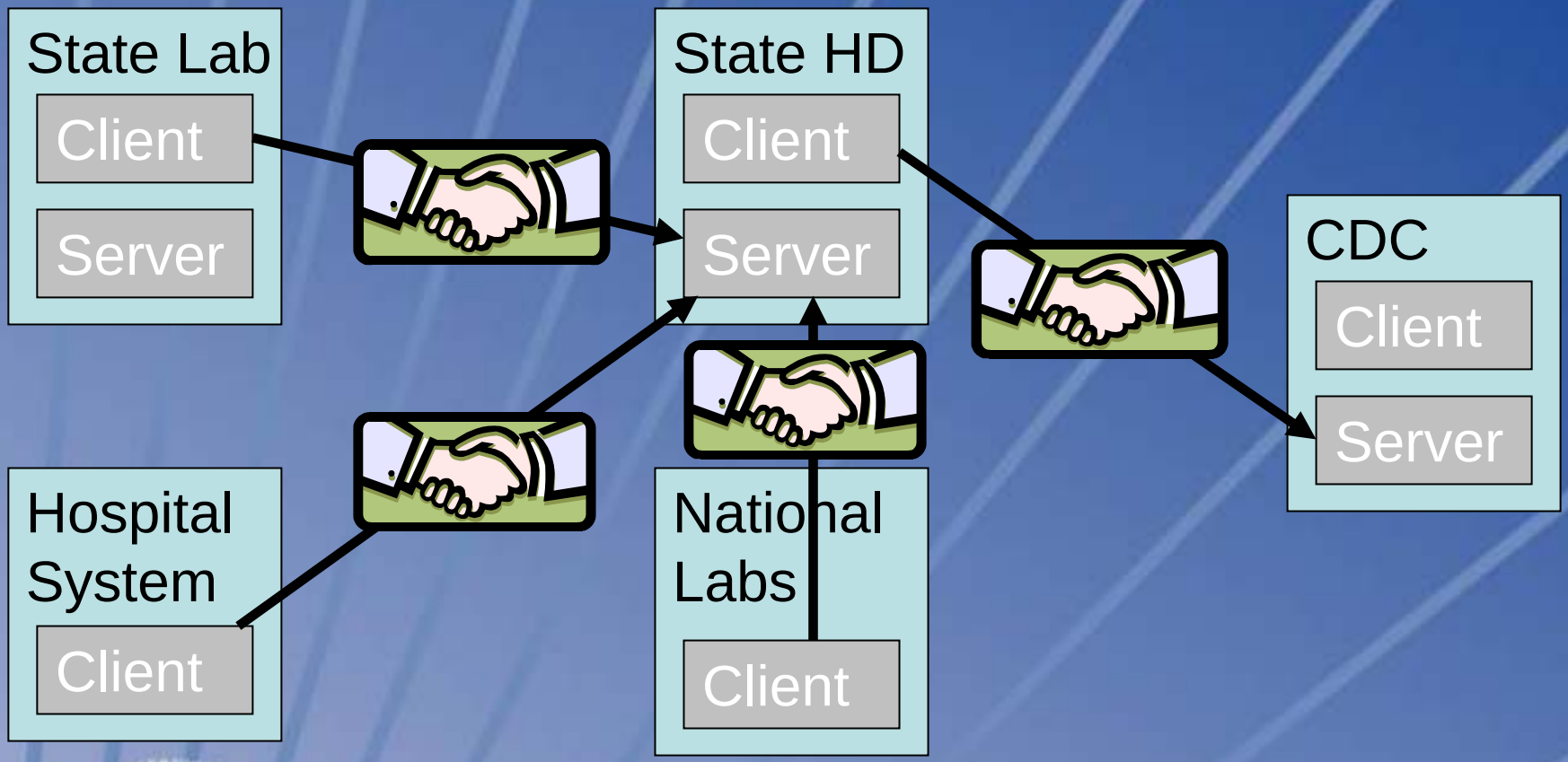
- ebXML enables “a modular yet complete electronic business frame- work for collaborative commerce” *
- ebMS used to send all types of files, not just XML
- Specification is jointly sponsored by OASIS and UN CEFACT

* *Professional ebXML Foundations*, Chappell et. al, Wrox Press, 2001

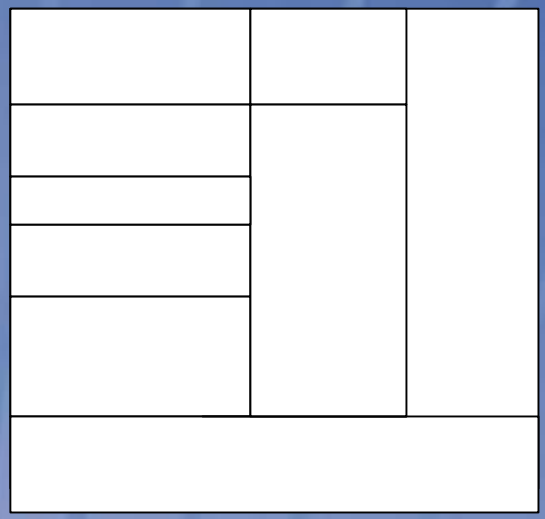
Why ebXML

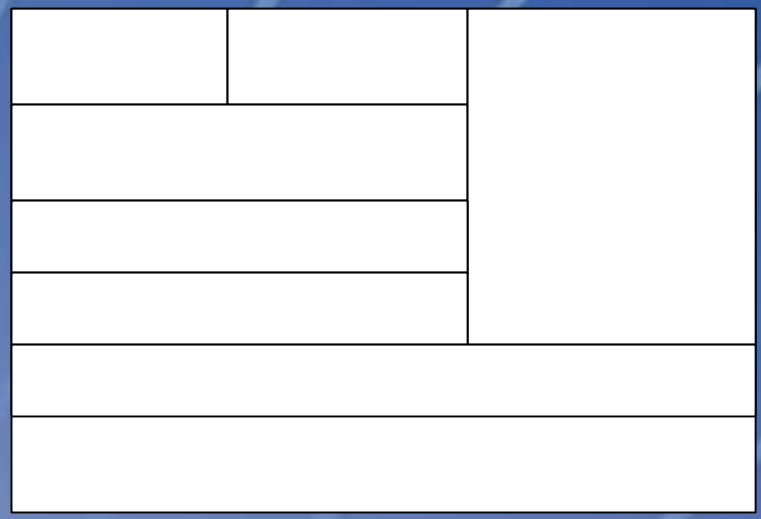
- Confidentiality
  - Information remains private between two parties
- Authenticity
  - Ensured identity
- Data Integrity
  - Data has not been changed in transit
- Non-repudiation
  - Can not deny sending or receiving message

PHIN Messaging Topology



Architectural Differences





PHINMS 2.5 Feature Enhancements

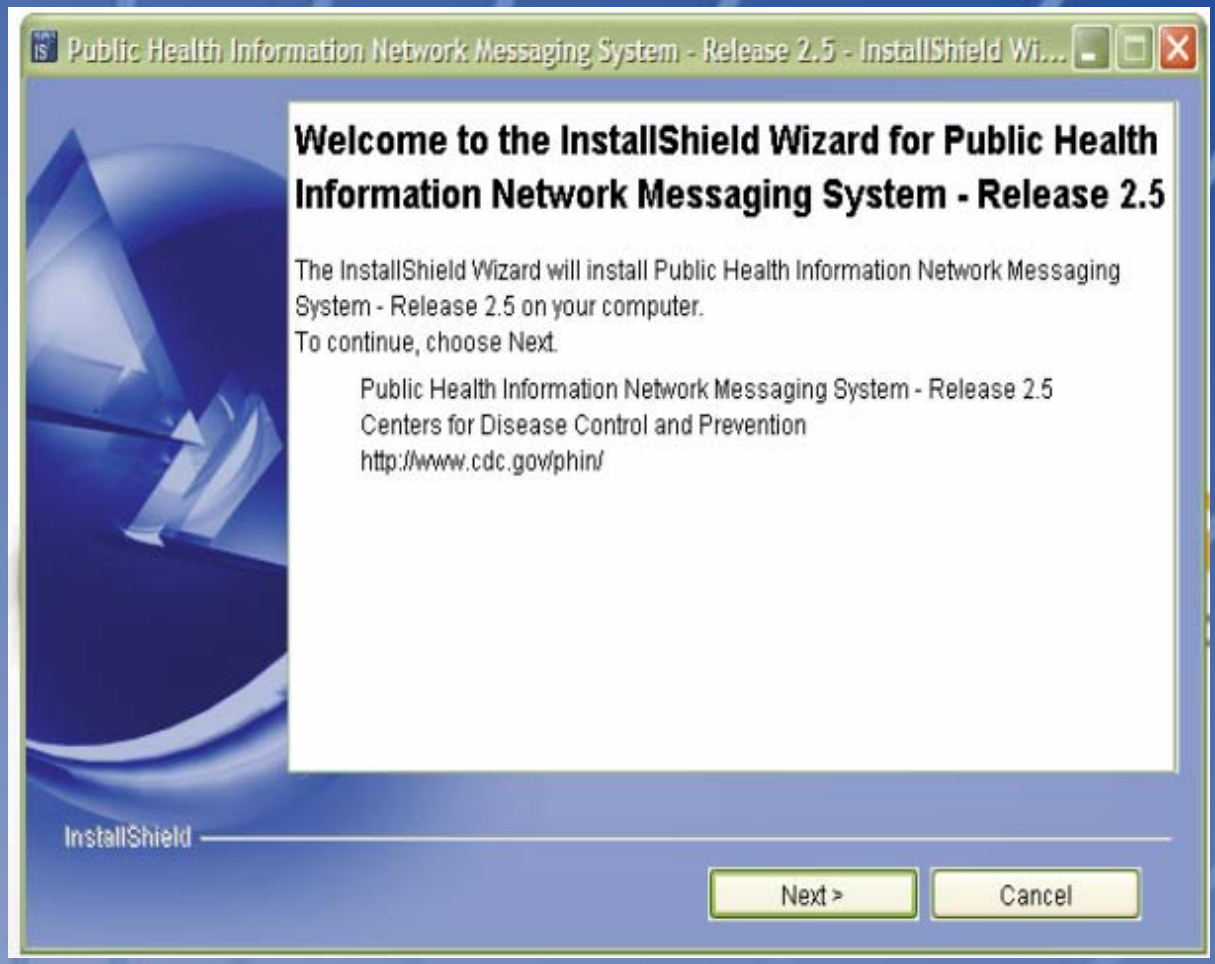
- Installation simplified (Sender and receiver included)
- Default working configuration
- GUI Configuration Console
- Ability to transport larger payloads (up to ½ Gig)
- Allow routes to use different certificates and authentication protocols

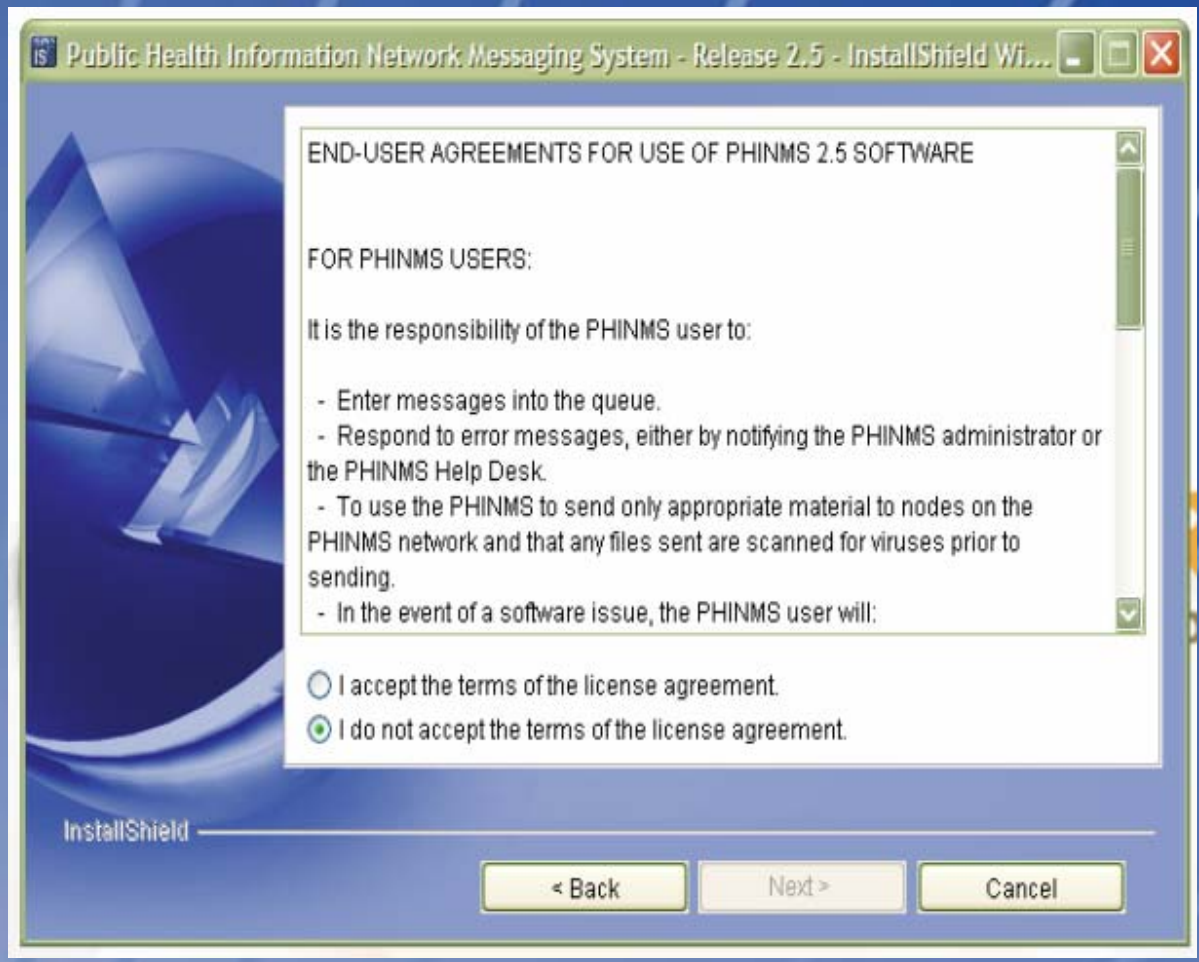
PHINMS 2.5 Package

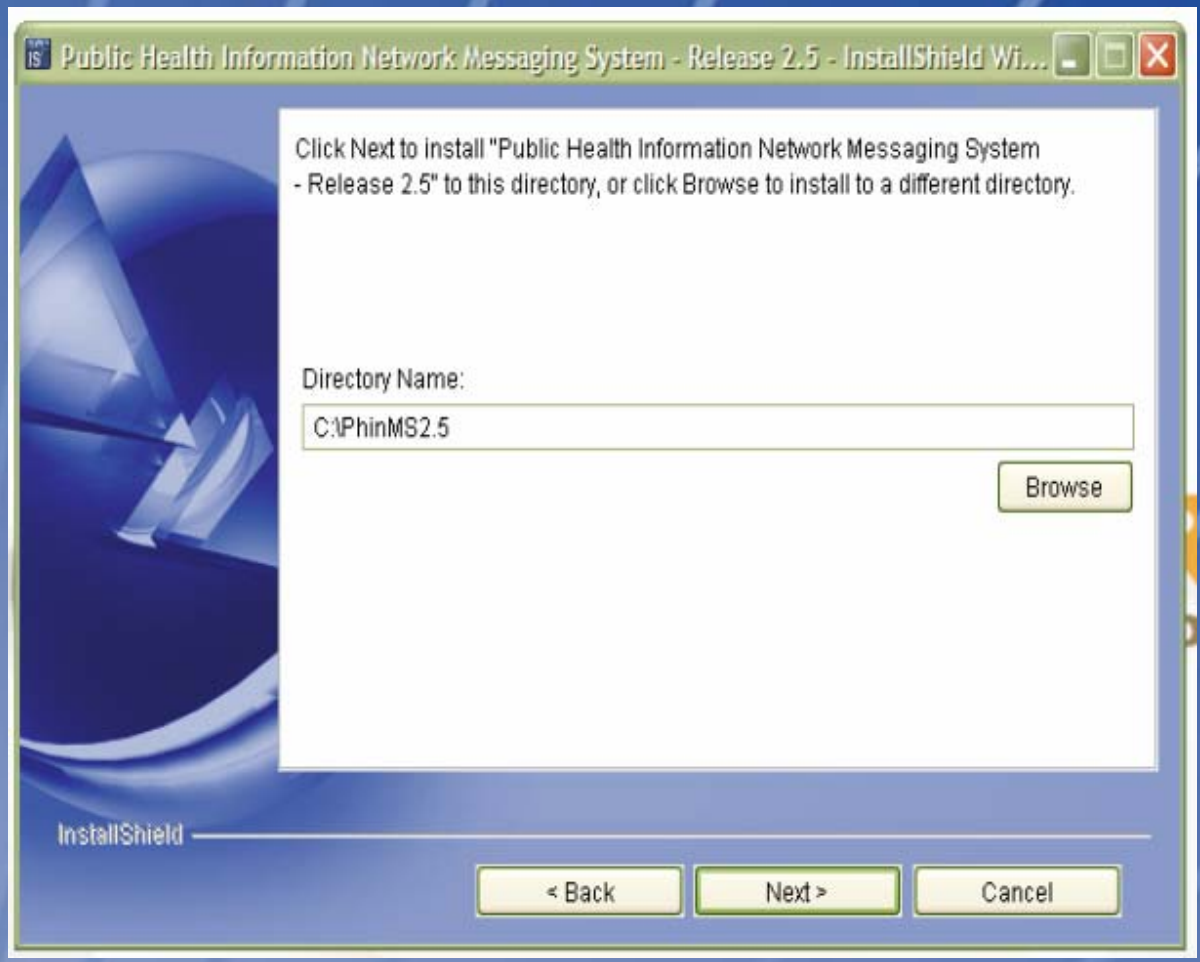
- Tomcat Application Server
- Sender Servlet
- Receiver Servlet
- Console
- MS Access database as default install
- Backwards compatible

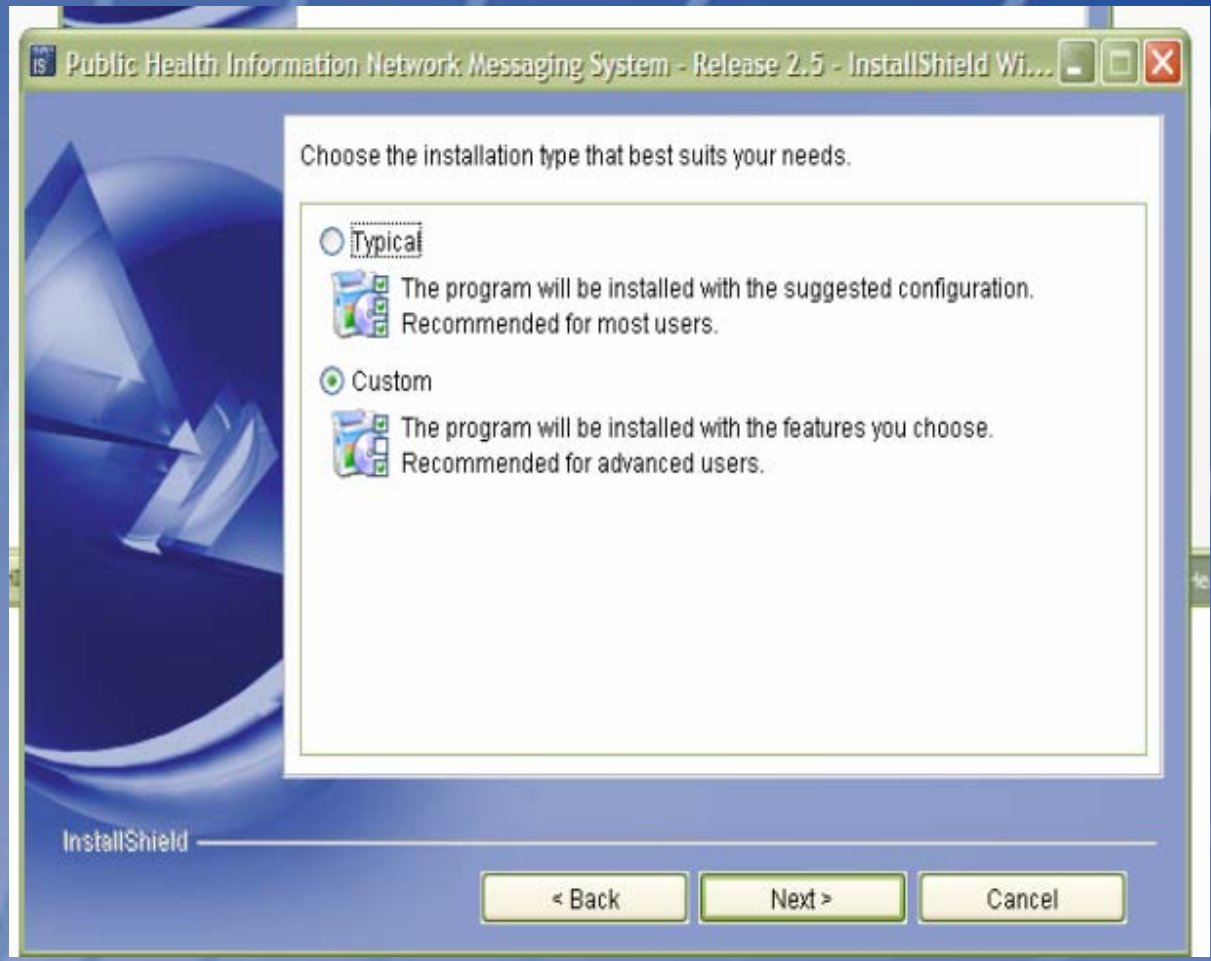
Collaboration Protocol Agreement (CPA)

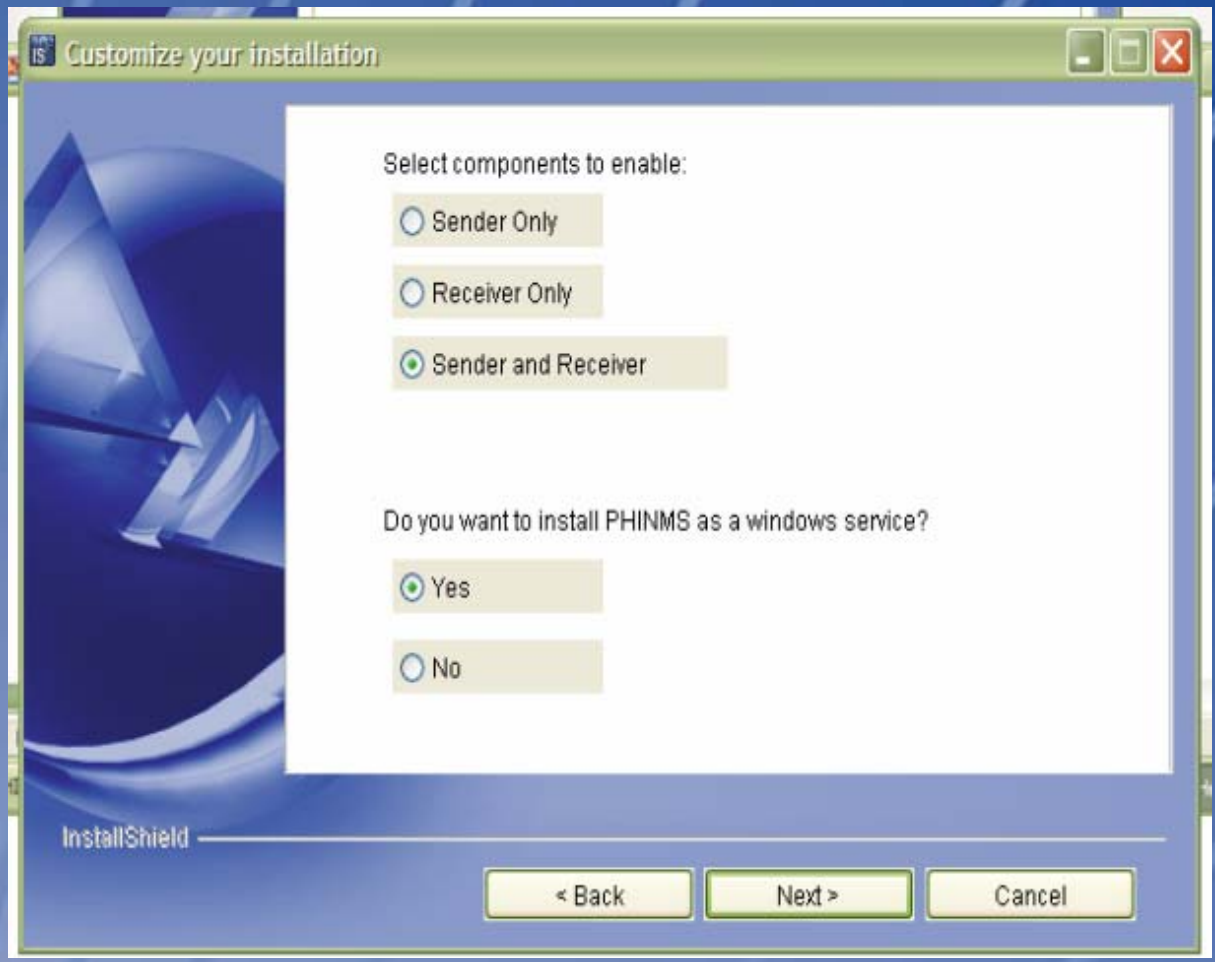
- Every node needs a CPA with every other node
- The file must be physically located on both nodes
- PartyInfo entry for both nodes
  - partner party-ID
  - end-points (URLs)
  - security attributes

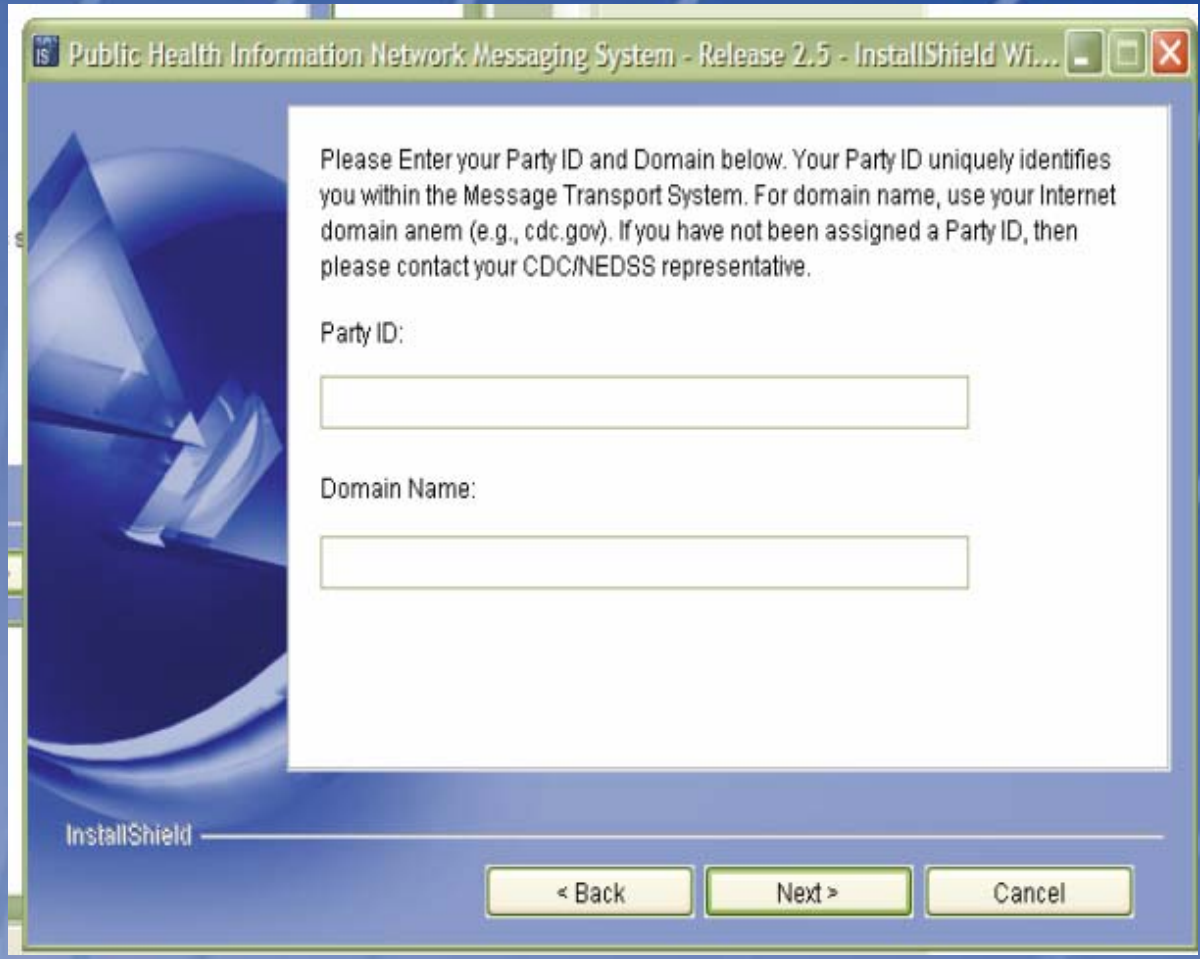

Public Health Information Network Messaging System - Release 2.5 - InstallShield Wi...
Welcome to the InstallShield Wizard for Public Health Information Network Messaging System - Release 2.5
The InstallShield Wizard will install Public Health Information Network Messaging System - Release 2.5 on your computer.
To continue, choose Next.
Public Health Information Network Messaging System - Release 2.5
Centers for Disease Control and Prevention
http://www.cdc.gov/phin/
InstallShield
Next >
Cancel


Public Health Information Network Messaging System - Release 2.5 - InstallShield Wi...
END-USER AGREEMENTS FOR USE OF PHINMS 2.5 SOFTWARE
FOR PHINMS USERS:
It is the responsibility of the PHINMS user to:
- Enter messages into the queue.
- Respond to error messages, either by notifying the PHINMS administrator or the PHINMS Help Desk.
- To use the PHINMS to send only appropriate material to nodes on the PHINMS network and that any files sent are scanned for viruses prior to sending.
- In the event of a software issue, the PHINMS user will:
I accept the terms of the license agreement.
I do not accept the terms of the license agreement.
InstallShield
< Back
Next >
Cancel


Public Health Information Network Messaging System - Release 2.5 - InstallShield Wi...
Click Next to install "Public Health Information Network Messaging System - Release 2.5" to this directory, or click Browse to install to a different directory.
Directory Name:
C:\PhinMS2.5
Browse
InstallShield
< Back
Next >
Cancel


Public Health Information Network Messaging System - Release 2.5 - InstallShield Wi...
Choose the installation type that best suits your needs.
Typical
The program will be installed with the suggested configuration.
Recommended for most users.
Custom
The program will be installed with the features you choose.
Recommended for advanced users.
InstallShield
< Back
Next >
Cancel


Customize your installation
Select components to enable:
Sender Only
Receiver Only
Sender and Receiver
Do you want to install PHINMS as a windows service?
Yes
No
InstallShield
< Back
Next >
Cancel



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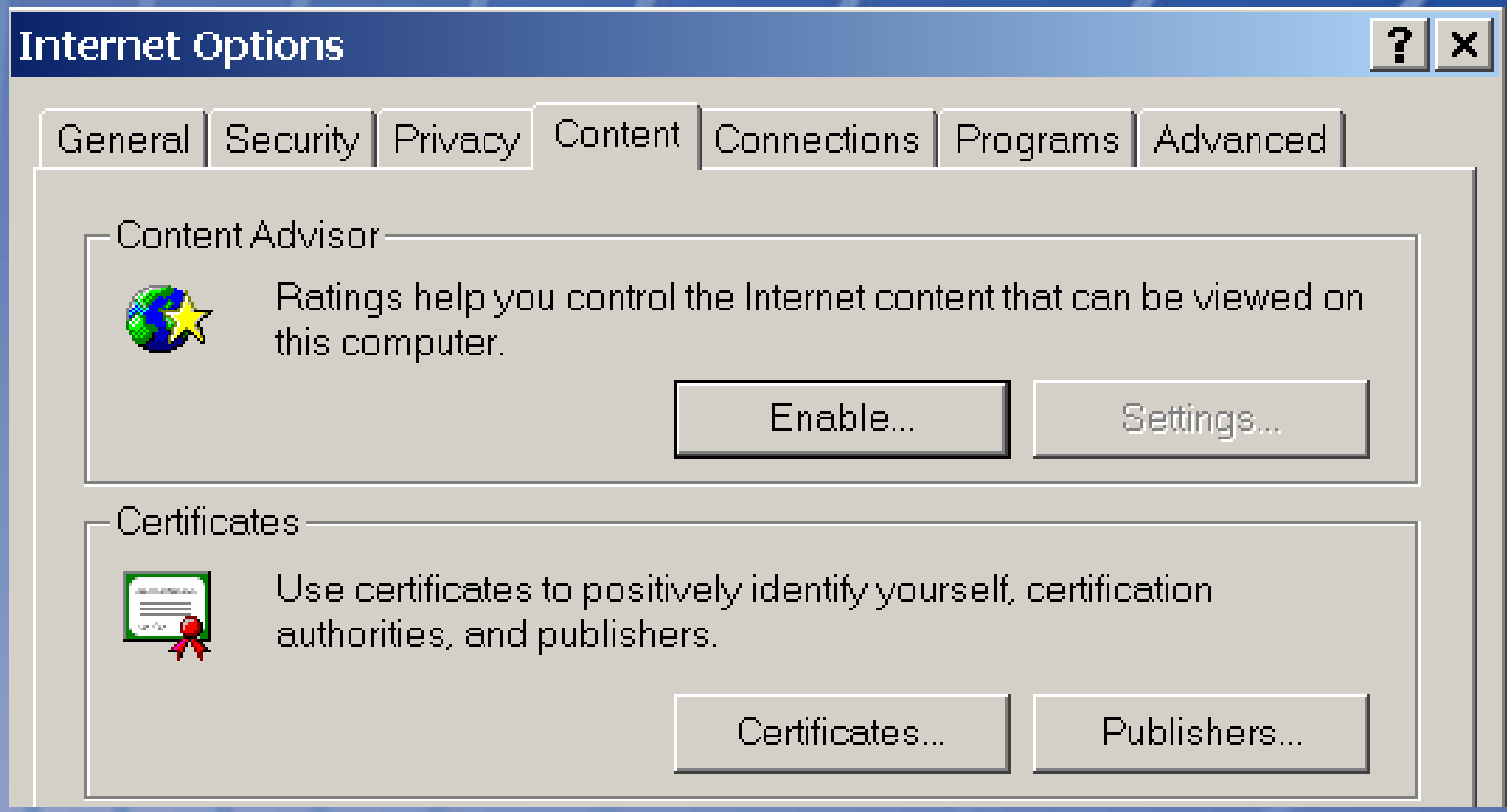
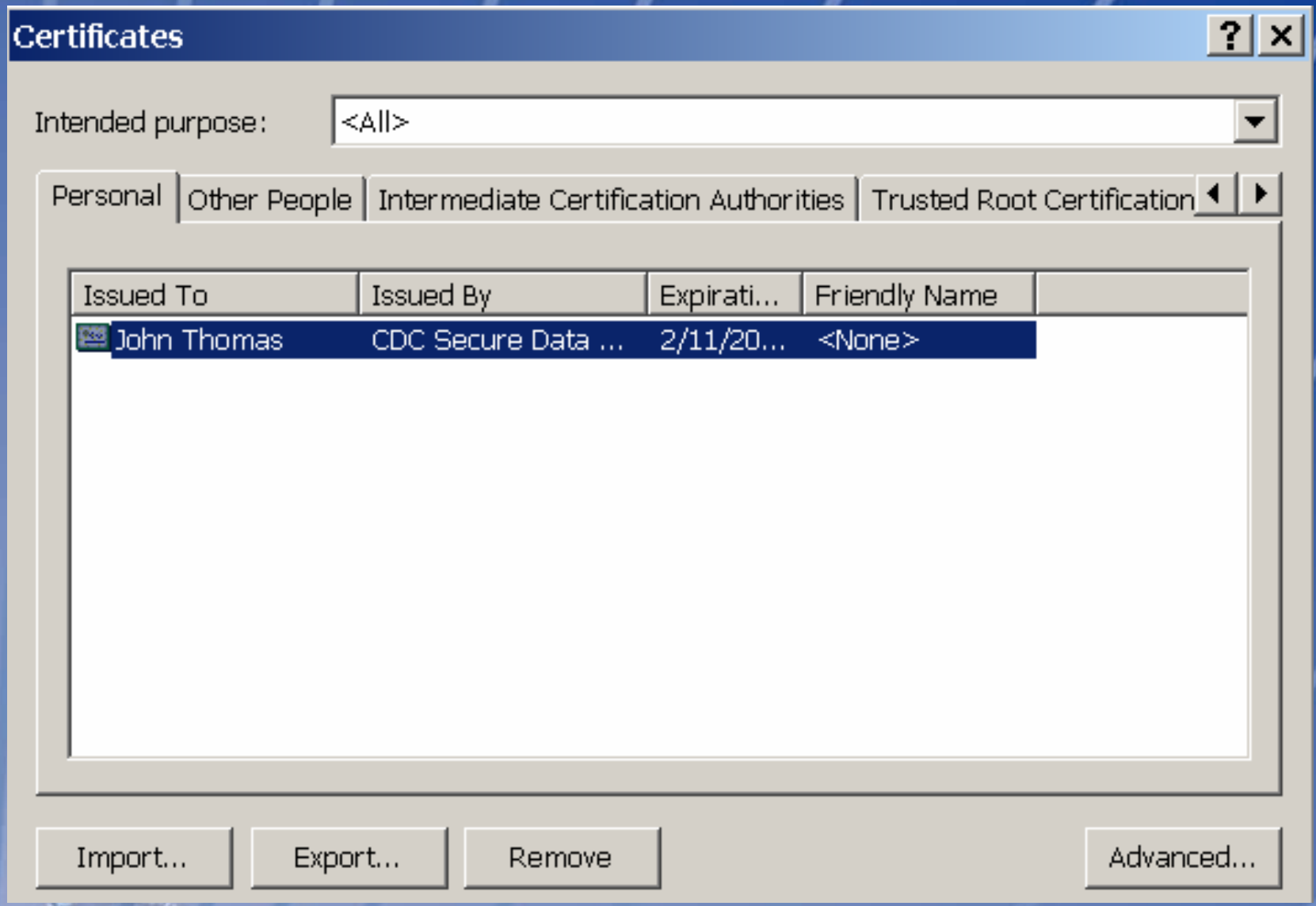
Exporting Certificate





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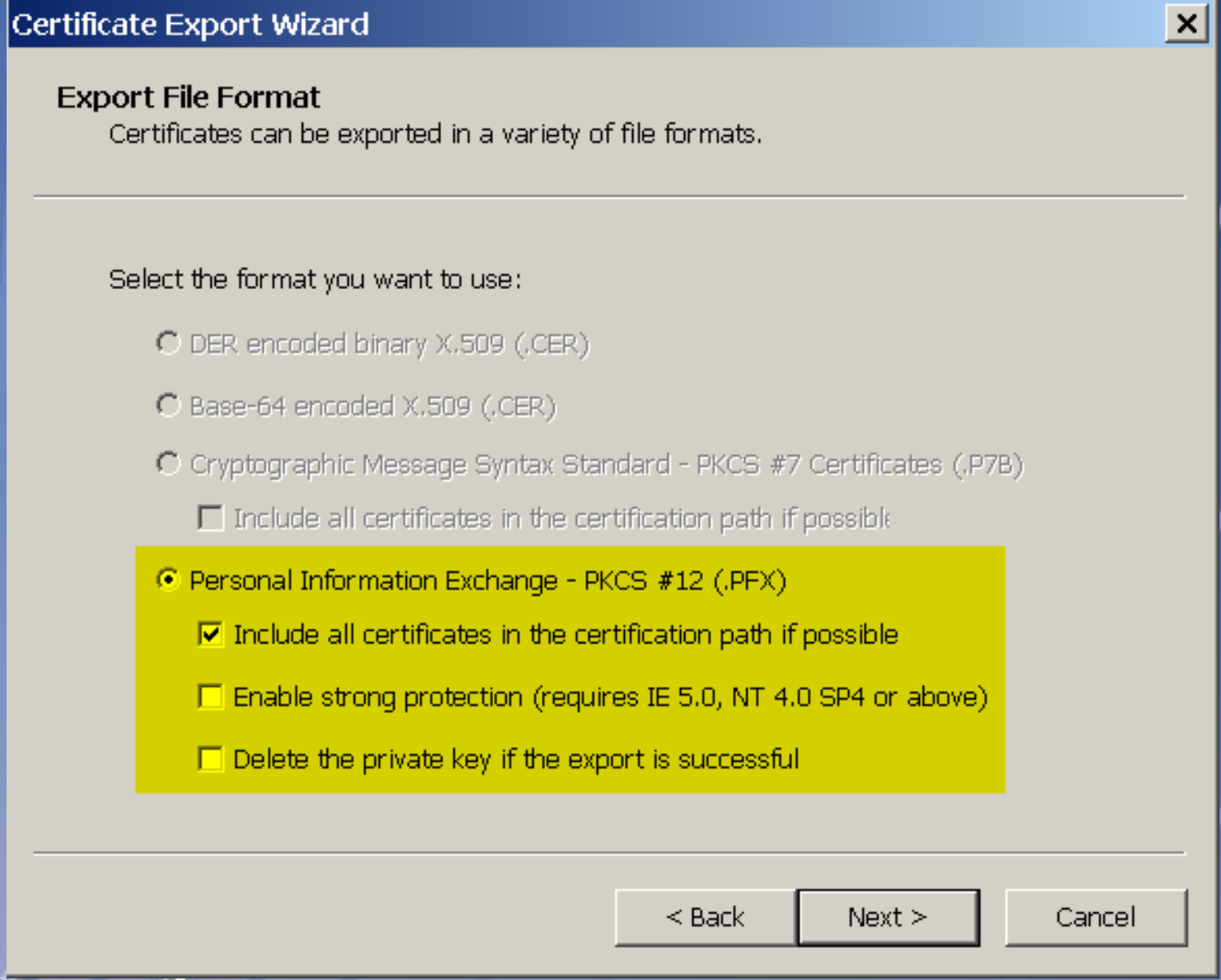

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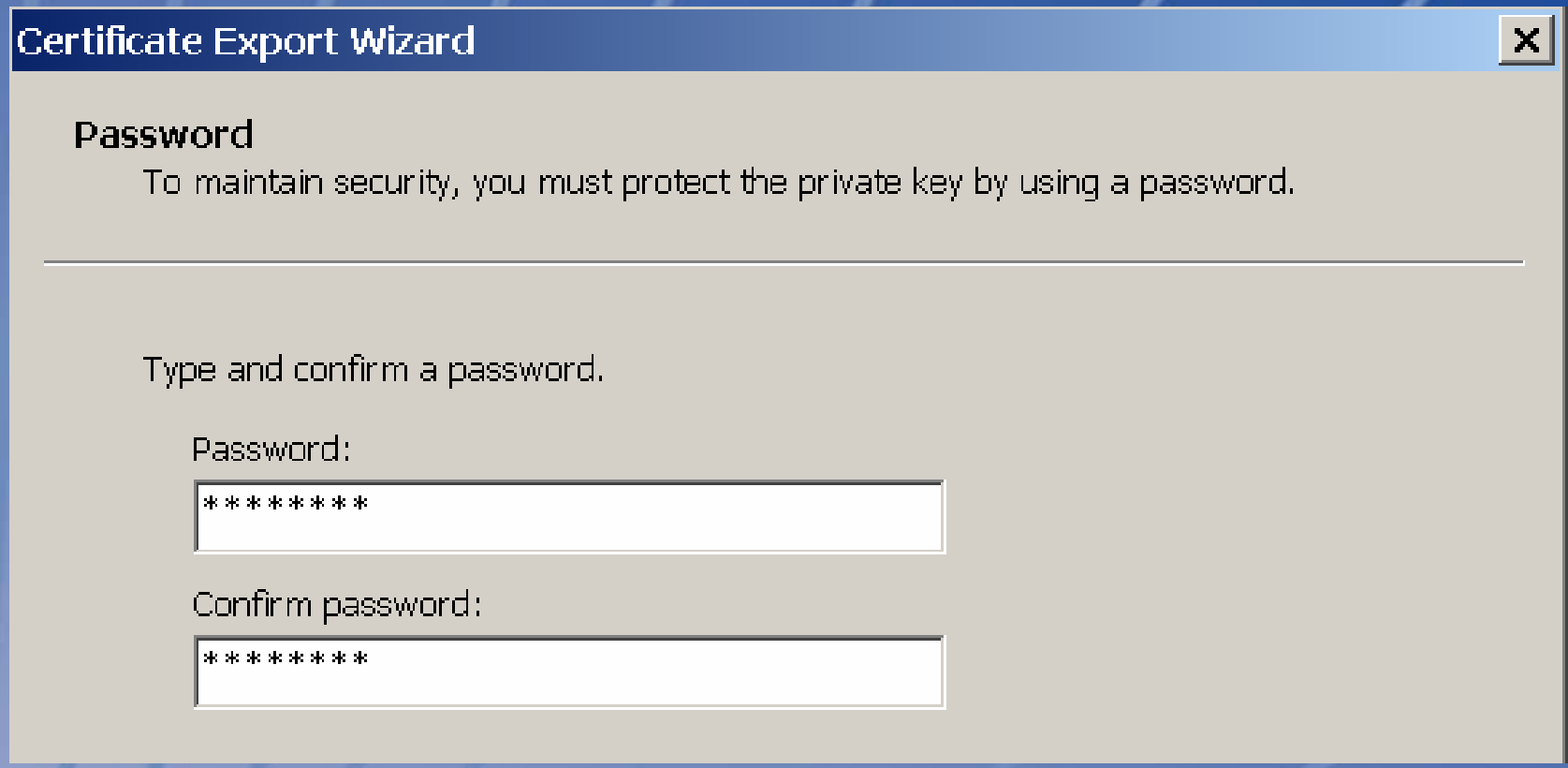

Demo